



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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December 17, 1991

*Due Feb 20<sup>th</sup> 1992*

CERTIFIED RETURN RECEIPT  
P 078 974 830

Ms. Cindy S. Emmons  
Director, Environmental Affairs  
Kennecott Utah Copper  
P. O. Box 525  
Bingham Canyon, Utah 84006-0525

*Cindy*  
Dear Ms. Emmons:

Re: Division Response to Supplemental Permit Information, Kennecott Utah Copper (KUC), Bingham Canyon Mine, M/035/002, Salt Lake County, Utah

Thank you for your November 14, 1991 letter addressing permit information requested earlier by the Division. The Division has evaluated the information concerning the maps and dump design and found it to be deficient. The following addresses the deficiencies that were found:

1. Maps - The maps provided by Kennecott (3 copies of scale 1"=800') are adequate for the pit area. However, the pit only encompasses an estimated 1/3 of the disturbed area(s) included under the Bingham Canyon Mine permit. The Division has asked for a set of disturbed area maps which cover the **entire** permit area (please see enclosed map). The Division first requested this type of information by letter dated July 17, 1989. In a letter dated May 24, 1991, the Division requested a set of small and large scale disturbed area maps, representative of the entire Bingham Canyon Mine site area.

Kennecott's original (1976) Notice of Intention (NOI) describes the permit boundaries by legal description which is only broken down to section. This leaves open an enormous area (which Kennecott may or may not be held responsible for) to reclaim, depending upon the type, magnitude and age of mining-related disturbance. The disturbed area must be represented more accurately in the mining and reclamation plan/permit.

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The original NOI indicates that the approximate disturbance is 23,000 acres. This acreage is broken down into waste dumps, tailings, etc. Please provide an update of these acreage estimates. A more accurate estimate could be produced from the requested maps, once they are made available.

2. Dumps - Kennecott has described for us what the limitations are to waste dump design (safety, efficiency, environmental, etc). However, the Division's original question dealt specifically with dump **design**. Please characterize the specific design of **each** Bingham Canyon mine waste dump including: 1) size; 2) slope angle (operational design vs. final reclamation design); 3) volume of material; 4) disturbed acreage; 5) safety factors; 6) construction method(s); and 7) number of dumps (identified by name or code number).
3. Reclamation Projects Status - This portion of the response was satisfactory. The Division looks forward to the evaluation of data generated from your various test plot evaluations by March 1, 1992.

A new deadline for submittal of the information concerning maps, acreages and dumps is established 60 days from the date of your receipt of this letter. Please contact me Wayne Hedberg or Holland Shepherd of my staff with questions regarding this requirements of this letter.

Sincerely,



Lowell P. Braxton  
Associate Director, Mining

jb  
Enclosure  
cc: Fred Fox, KUC  
Minerals staff  
M035002.2

